

## CLAIMS

What is claimed is:

- 1 1. An electrical fuse box comprising:
  - 2 a frame;
  - 3 a plurality of electrical components pre-assembled within said frame;
  - 4 a plurality of connector modules pre-assembled within said frame, wherein said
  - 5 connector modules are dimensioned and configured for electrically engaging electrical wires;
  - 6 an upper cover mounted on said frame; and
  - 7 a lower cover mounted on said frame.
- 1 2. The electrical fuse box of claim 1, wherein said electrical components comprise
- 2 relays, circuit breakers, J-case fuses, and blade fuses.
- 1 3. The electrical fuse box of claim 1, wherein said connector modules comprise
- 2 connection contacts.
- 1 4. The electrical fuse box of claim 3, wherein said connection contacts extend through
- 2 said frame and make an electrical connection with said electrical components.
- 1 5. The electrical fuse box of claim 1, wherein said frame comprises at least one locking
- 2 receiver.

1       6.     The electrical fuse box of claim 5, wherein each of said upper cover and lower cover  
2     comprise a locking member dimensioned and configured to engage said locking receiver.

1       7.     The electrical fuse box of claim 1, wherein each of said upper cover and lower cover  
2     are pivotally mounted on said frame.

1       8.     An electrical fuse relay box comprising:  
2             a frame, wherein said frame comprises an upper and a lower compartment;  
3             a plurality of electrical components pre-assembled within said upper compartment;  
4             a plurality of connector modules pre-assembled within said lower compartment,  
5     wherein said connector modules are dimensioned and configured for electrically engaging  
6     electrical wires;  
7             an upper cover mounted on said upper compartment; and  
8             a lower cover mounted on said lower compartment.

1       9.     The electrical fuse relay box of claim 8, wherein said electrical components comprise  
2     relays, circuit breakers, J-case fuses, and blade fuses.

1       10.    The electrical fuse relay box of claim 8, wherein said connector modules comprise  
2     connection contacts.

1       11.    The electrical fuse relay box of claim 10, wherein said connection contacts extend  
2     through said frame and make an electrical connection with said electrical components.

1       12.     The electrical fuse relay box of claim 8, wherein said frame comprises at least one  
2     locking receiver.

1       13.     The electrical fuse relay box of claim 12, wherein each of said upper cover and lower  
2     cover comprise a locking member dimensioned and configured to engage said locking  
3     receiver.

1       14.     The electrical fuse box of claim 8, wherein each of said upper cover and lower cover  
2     are pivotally mounted on said frame.

1       15.     An electrical fuse relay box comprising:  
2                 a frame, wherein said frame comprises an upper compartment, a lower compartment,  
3     and at least one locking receiver;  
4                 a plurality of electrical components pre-assembled within said upper compartment;  
5                 a plurality of connector modules pre-assembled within said lower compartment,  
6     wherein said connector modules are dimensioned and configured for electrically engaging  
7     electrical wires;  
8                 an upper cover pivotally mounted on said upper compartment; and  
9                 a lower cover pivotally mounted on said lower compartment,  
10    wherein each of said upper cover and lower cover comprise a locking member  
11    dimensioned and configured to engage said locking receiver.

1 16. The electrical fuse relay box of claim 15, wherein said electrical components  
2 comprise relays, circuit breakers, J-case fuses, and blade fuses.

1 17. The electrical fuse relay box of claim 15, wherein said connector modules comprise  
2 connection contacts.

1 18. The electrical fuse relay box of claim 17, wherein said connection contacts extend  
2 through said frame and make an electrical connection with said electrical components.

1 19. A method of pre-assembling an electrical fuse relay box, said electrical fuse relay box  
2 comprising a frame having an upper compartment and a lower compartment, said method  
3 comprising:

4       mounting a plurality of electrical components within said upper compartment;  
5       mounting a plurality of connector modules within said lower compartment, wherein  
6       said connector modules being configured for electrically engaging electrical wires;  
7       positioning an upper cover on said upper compartment; and  
8       positioning a lower cover on said lower compartment.

1 20. The method of claim 19, wherein said electrical components comprise relays, circuit  
2 breakers, J-case fuses, and blade fuses.

1 21. The method of claim 19, wherein said connector modules comprise connection  
2 contacts.

1    22.    The method of claim 21, further comprising extending said connection contacts  
2    through said frame to make an electrical connection with said electrical components.

1    23.    The method of claim 19, wherein said frame comprises at least one locking receiver.

1    24.    The method of claim 23, wherein each of said upper cover and lower cover comprise  
2    a locking member dimensioned and configured to engage said locking receiver.

1    25.    The method of claim 19, wherein said upper cover is pivotally mounted on said upper  
2    compartment and said lower cover is pivotally mounted on said lower compartment.